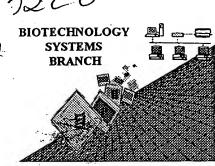
### RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

09/493,795 Application Serial Number: Art Unit / Team No. : Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

PAGE: 1

### RAW SEQUENCE LISTING PATENT APPLICATION US/09/493,795

DATE: 02/17/2000 TIME: 12:51:55

Input Set: I493795, RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

```
]pp5,2-3
```

```
<110> APPLICANT: Watkins, Maren
 1
           Olivera, Baldomero M.
 2
           Hillyard, David R.
 3
                                                                   Does Not Comply
 4
           McIntosh, J. Michael
                                                               Corrected Diskette Needed
 5
           Jones, Robert M.
     <120> TITLE OF INVENTION: Alpha-Conotoxin Peptides
 6
 7
     <130> FILE REFERENCE: Alphas 2
 8
     <140> CURRENT APPLICATION NUMBER: US/09/493,795
 9
     <141> CURRENT FILING DATE: 2000-01-28
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     <150> EARLIER APPLICATION NUMBER: US 60/118,381
     <151> EARLIER FILING DATE: 1999-01-29
11
     <160> NUMBER OF SEQ ID NOS: 404
12
     <170> SOFTWARE: PatentIn Ver. 2.0
13
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14
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   <211> LENGTH: 17
     <212> TYPE: PRT
16
     <213> ORGANISM: Artificial Sequence
17
18
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     <223> OTHER INFORMATION: Description of Artificial Sequence: Alpha-Conotoxin
19
20
           Peptide Generic Formula I
21
     <220> FEATURE:
                                                          /
     <221> NAME/KEY: PEPTIDE
22
23
     <222> LOCATION: (1)..(3)
     <223> OTHER INFORMATION: Xaa at residue 1 is des-Xaa, Ile, Leu or Val; Xaa
24
           at residue 2 is des-Xaa, Ala or Gly; Xaa at
25
26
           residue 3 is des-Xaa, Gly, Trp (D or L), neo-Trp,
27
           halo-Trp or any unnatural aromatic amino acid.
28
     <220> FEATURE:
     <221> NAME/KEY: PEPTIDE
29
30
     <222> LOCATION: (4)..(5)
     <223> OTHER INFORMATION: Xaa at residue 4 is des-Xaa, Gly, Trp (D or L),
31
32
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           acid; Xaa at residue 5 is Glu, gamma-carboxy-Glu
33
           (Gla), Asp, Ala, Thr, Ser, Gly, Ile, Tyr, nor-Tyr,
34
35
     <220> FEATURE:
36
     <221> NAME/KEY: PEPTIDE
37
     <222> LOCATION: (5)..(8)
38
     <223> OTHER INFORMATION: mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
39
           O-phospho-Tyr, nitro-Tyr or any unnatural hydroxy
40
           containing amino acid; Xaa at residue 8 is Ser,
41
           Thr, Arg, ornithine, homoarginine, Lys,
42
           N-methyl-Lys,
43
     <220> FEATURE:
     <221> NAME/KEY: PEPTIDE
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PAGE: 2 RAW SEQUENCE LISTING

PATENT APPLICATION US/09/493,795

Input Set: I493795.RAW

DATE: 02/17/2000

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<222> LOCATION: (8)..(9)
45
      <223> OTHER INFORMATION: N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
46
47
            unnatural basic amino acid; Xaa at residue 9 is
            Asp, Glu, Gla, Arg, ornithine, homoarginine, Lys,
48
49
            N-methyl-Lys, N, N-dimethyl-Lys,
50
            N, N, N-trimethyl-Lys or
      <220> FEATURE:
51
      <221> NAME/KEY: PEPTIDE
52
53
      <222> LOCATION: (9)..(11)
      <223> OTHER INFORMATION: any unnatural basic amino acid; Xaa at residue 10
54
55
             is Ser, Thr, Asn, Ala, Gly, His, halo-His, Pro or
            hydroxy-Pro; Xaa at residue 11 is Thr, Ser, Ala,
56
57
            Asp, Asn, Pro, hydroxy-Pro,
58
      <220> FEATURE:
59
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60
      <222> LOCATION: (11)..(13)
      <223> OTHER INFORMATION: Arg, ornithine, homoarginine, Lys, N-methyl-Lys,
61
62
            N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
            unnatural basic amino acid; Xaa at residue 13 is
63
64
            Gly, Ser, Thr, Ala, Asn,
65
      <220> FEATURE:
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66
     <222> LOCATION: (13)..(14)
67
      <223> OTHER INFORMATION: Arg, ornithine, homoarginine, Lys, N-methyl-Lys,
68
69
            N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
70
            unnatural basic amino acid; Xaa at residue 14 is
            Gln, Leu, His, halo-His, Trp (D or L), halo-Trp,
71
72
            neo-Trp,
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73
74
     <221> NAME/KEY: PEPTIDE
75
     <222> LOCATION: (14)
      <223> OTHER INFORMATION: Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr,
76
77
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            ornithine, homoarginine, Lys, N-methyl-Lys,
78
79
            N, N-dimethyl-Lys, N, N, N-trimethyl-Lys, any
            unnatural basic amino
80
81
     <220> FEATURE:
     <221> NAME/KEY: PEPTIDE
82
     <222> LOCATION: (14)..(15)
     <223> OTHER INFORMATION: acid or any unnatural aromatic amino acid; Xaa at
84
            residue 15 is Asn, His, halo-His, Ile, Leu, Val,
85
86
            Gln, Arg, ornithine, homoarginine, Lys,
     N-methyl-Lys, N,N-dimethyl-Lys,
N,N,N-trimethyl-Lys or any

<220> FEATURE:

<221> NAME/KEY: PEPTIDE

<222> LOCATION: (15)...(16)

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des-Xaa, Val, Ile, Leu, Arg, ornithine,
homoarginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys,

Location 17.
87
            N-methyl-Lys, N, N-dimethyl-Lys,
88
89
90
91
92
93
94
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RAW SEQUENCE LISTING
                                                                              DATE: 02/17/2000
PAGE:
                               PATENT APPLICATION US/09/493,795
                                                                              TIME: 12:51:55
                                                                   Input Set: I493795.RAW
                   N,N,N-trimethyl-Lys or any unnatural basic amino
        95
        96
                   acid.
             <400> SEQUENCE: 1
        97
                   Xaa Xaa Xaa Xaa Cys Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys
        98
                                                        10 _ .
        99
                                     5
      100
                   Xaa
      101
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             <211> LENGTH: 21
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      103
             <212> TYPE: PRT
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             <213> ORGANISM: Artificial Sequence
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             <220> FEATURE:
             <223> OTHER INFORMATION: Description of Artificial Sequence: Alpha-Conotoxin
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      107
                   Peptide Generic Formula II.
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             <220> FEATURE:
      109
             <221> NAME/KEY: PEPTIDE
                                                     1
      110
             <222> LOCATION: (1)..(3)
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      112
                   gamma-carboxy-Glu (Gla); Xaa at residue 2 is
                   des-Xaa, Gln, Ala, Asp, Glu, Gla; Xaa at residue 3
      113
      114
                   is des-Xaa, Gly, Ala, Asp, Glu, Gla, Pro or
      115
                   hydroxy-Pro.
      116
             <220> FEATURE:
             <221> NAME/KEY: PEPTIDE
      117
             <222> LOCATION: (4)..(7)
      118
      119
             <223> OTHER INFORMATION: Xaa at residue 4 is des-Xaa4, Gly, Glu, Gla, Gln,
      120
                   Asp, Asn, Pro or hydroxy-Pro; Xaa at residue 7 is
      121
                   Ser, Thr, Gly, Glu, Gla, Asn, Trp (D or L),
                   neo-Trp, halo-Trp, Arg, ornithine, homoarginine,
      122
      123
             <220> FEATURE:
      124
             <221> NAME/KEY: PEPTIDE
      125
             <222> LOCATION: (7)
      126
             <223> OTHER INFORMATION: Lys, N-methyl-Lys, N,N-dimethyl-Lys,
      127
                   N, N, N-trimethyl-Lys, any unnatural basic amino
                   acid, Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr,
      128
      129
                   O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr or any
      130
                   unnatural hydroxy
      131
             <220> FEATURE:
             <221> NAME/KEY: PEPTIDE
      132
             <222> LOCATION: (7)..(8)
             <223> OTHER INFORMATION: containing amino acid; Xaa at residue 8 is Asp,
      134
      135
                   Asn, His, halo-His, Thr, Ser, Tyr, nor-Tyr,
                   mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
      136
      137
                   O-phospho-Tyr, nitro-Tyr or any unnatural hydroxy
             <220> FEATURE:
      138
      139
             <221> NAME/KEY: PEPTIDE
      140
             <222> LOCATION: (8)..(10)
      141
             <223> OTHER INFORMATION: containing amino acid; Xaa at residue 9 is Pro or
                  hydroxy-Pro; Xaa at residue 10 is Ala, Ser, Thr,
      142
                  Asp, Val, Ile, Pro, hydroxy-Pro, Tyr, nor-Tyr,
      143
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mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,

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144

PAGE: 4 RAW SEQUENCE LISTING DATE: 02/17/2000

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Input Set: I493795.RAW

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145
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      <223> OTHER INFORMATION: O-phospho-Tyr, nitro-Tyr or any unnatural hydroxy
148
149
            containing amino acid; Xaa at residue 12 is Gly,
            Ile, Leu, Val, Ala, Thr, Ser, Pro, hydroxy-Pro,
150
            Phe, Trp (D or L), neo-Trp, halo-Trp, Arg,
151
            ornithine,
152
153
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      <222> LOCATION: (12)..(13)
      <223> OTHER INFORMATION: homoarginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys,
156
157
            N, N, N-trimethyl-Lys, any unnatural basic amino
158
            acid or any unnatural aromatic amino acid; Xaa at
159
            residue 13 is Ala, Asn, Phe, Pro, hydroxy-Pro,
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      <221> NAME/KEY: PEPTIDE
161
162
      <222> LOCATION: (13)
      <223> OTHER INFORMATION: Glu, Gla, Gln, His, halo-His, Val, Ser, Thr, Arg,
163
164
            ornithine, homoarginine, Lys, N-methyl-Lys,
165
            N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
            unnatural basic amino acid.
166
      <220> FEATURE:
167
      <221> NAME/KEY: PEPTIDE
168
169
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172
            ornithine, homoarginine, Lys, N-methyl-Lys,
173
            N, N-dimethyl-Lys, N, N, N-trimethyl-Lys, any
174
            unnatural basic
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175
176
      <221> NAME/KEY: PEPTIDE
177
      <222> LOCATION: (14)..(15)
      <223> OTHER INFORMATION: amino acid, Tyr, nor-Tyr, mono-halo-Tyr,
178
179
            di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr,
180
            nitro-Tyr or any unnatural hydroxy containing
181
            amino acid; Xaa at residue 15 is Asn, Pro,
            hydroxy-Pro, Gln, Ser, Thr,
182
      <220> FEATURE:
183
      <221> NAME/KEY: PEPTIDE
184
185
      <222> LOCATION: (15)
      <223> OTHER INFORMATION: Arg, ornithine, homoarginine, Lys, N-methyl-Lys,
186
187
            N, N-dimethyl-Lys N, N, N-trimethyl-Lys, any
188
            unnatural basic amino acid, Tyr, nor-Tyr,
189
            mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
190
            O-phospho-Tyr, nitro-Tyr
191
      <220> FEATURE:
192
      <221> NAME/KEY: PEPTIDE
193
      <222> LOCATION: (15)..(16)
      <223> OTHER INFORMATION: or any unnatural hydroxy containing amino acid;
194
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PAGE: 5 RAW SEQUENCE LISTING DATE: 02/17/2000 PATENT APPLICATION US/09/493,795 TIME: 12:51:55

Input Set: **I493795.RAW** 

```
195
            Xaa at residue 16 is des-Xaa, Gly, Thr, Ser, Pro,
196
            hydroxy-Pro, Tyr, nor-Tyr, mono-halo-Tyr,
197
            di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr,
198
            nitro-Tyr or any
199
      <220> FEATURE:
200
      <221> NAME/KEY: PEPTIDE
201
      <222> LOCATION: (16)..(17)
      <223> OTHER INFORMATION: unnatural hydroxy containing amino acid; Xaa at
202
203
            residue 17 is des-Xaa14, Ile, Val, Asp, Leu, Phe,
204
            Arg, ornithine, homoarginine, Lys, N-methyl-Lys,
            N, N-dimethyl-Lys, N, N, N-trimethyl-Lys, any
205
206
            unnatural
      <220> FEATURE:
207
208
      <221> NAME/KEY: PEPTIDE
209
      <222> LOCATION: (17)..(19)
      <223> OTHER INFORMATION: basic amino acid, Tyr, nor-Tyr, mono-halo-Tyr,
210
211
            di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr,
212
            nitro-Tyr or any unnatural hydroxy containing
            amino acid; Xaa at residue 19 is des-Xaa, Gly,
213
214
            Ala, Met, Ser,
215
      <220> FEATURE:
216
      <221> NAME/KEY: PEPTIDE
217
      <222> LOCATION: (19)
      <223> OTHER INFORMATION: Thr, Trp (D or L), neo-Trp, halo-Trp, any
218
219
            unnatural aromatic amino acid, Arg, ornithine,
220
            homoarginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys,
221
            N,N,N-trimethyl-Lys or any unnatural basic amino
            acid.
222
223
      <220> FEATURE:
224
      <221> NAME/KEY: PEPTIDE
225
      <222> LOCATION: (20)
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      <223> OTHER INFORMATION: Xaa at residue 20 is des-Xaa, Trp (D or L),
227
            neo-Trp, halo-Trp, any unnatural aromatic amino
228
            acid, Arg, ornithine, homoarginine, Lys,
229
            N-methyl-Lys, N, N-dimethyl-Lys,
230
            N, N, N-trimethyl-Lys or any
231
      <220> FEATURE:
232
      <221> NAME/KEY: PEPTIDE
      <222> LOCATION: (20)..(21)
233
      <223> OTHER INFORMATION: unnatural basic amino acid; Xaa at residue 21 is
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235
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236
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237
            N, N, N-trimethyl-Lys or any unnatural basic amino
238
            acid.
      <400> SEQUENCE: 2
239
240
            Xaa Xaa Xaa Cys Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
241
                             ∕2
                                                  10
242
            Xaa Cys Xaa Xaa Xaa
243
                         20
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Please Note: 210 > SEQ ID NO 3

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

psI

## VERIFICATION SUMMARYDATE: 02/17/2000PATENT APPLICATION US/09/493,795TIME: 12:51:55

Input Set: 1493795.RAW

Line ?	?	Erro	r/W	Jarning	3			Orig	ginal	l Tex	ĸŧ							
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98 W	V	"N"	or	"Xaa"	used:	Feature	required	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Cys	Xaa	Xaa	Xaa	Х
							required	Xaa										
							required	Xaa	Xaa	Xaa	Xaa	Cys	Cys	Xaa	Xaa	Xaa	Xaa	С
							required	Xaa	Cys	Xaa	Xaa	Xaa						
459 W	V	"N"	or	"Xaa"	used:	Feature	required	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Cys	Xaa	Xaa	Xaa	Х
							required				-					Xaa		
							required	_		_			_		_	Cys	_	
							required	Ala	Cys	Cys	Ser	Asp	Arg	Arg	Cys	Arg	Xaa	Α
							required	Asp	Xaa	Cys	Cys	Arg	Arg	His	Ala	Cys	Thr	L
							required	Asp	Xaa	Cys	Cys	Arg	Arg	Xaa	Xaa	Cys	Thr	L
							required	Gly	Cys	Cys	Ser	Asp	Xaa	Arg	Cys	Arg	Xaa	Α
							required	Gly	Gly	Cys	Cys	Ser	Asp	Xaa	Arg	Cys	Ala	Х
563 W	V	"N"	or	"Xaa"	used:	Feature	required	Ile	Ala	Xaa	Asp	Ile	Cys	Cys	Ser	Xaa	Xaa	A
							required	Gly	Cys	Cys	Ser	Asp	Xaa	Arg	Cys	Xaa	His	G
590 W	V	"N"	or	"Xaa"	used:	Feature	required	Cys	Cys	Ser	Asp	Xaa	Ala	Cys	Xaa	Gln	Thr	X
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616 W	V	"N"	or	"Xaa"	used:	Feature	required	Gly	Cys	Cys	Xaa	His	Xaa	Ala	Cys	Gly	Arg	H
629 W	V	"N"	or	"Xaa"	used:	Feature	required	Ala	Xaa	Cys	Cys	Asn	Asn	Xaa	Ala	Cys	Val	Х
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668 W	V	"N"	or	"Xaa"	used:	Feature	required	Asp	Xaa	Asn	Cys	Cys	Xaa	Asn	Xaa	Ser	Cys	Х
682 W	V	"N"	or	"Xaa"	used:	Feature	required	Gly	Cys	Cys	Ser	Arg	Xaa	Xaa	Cys	Ala	Val	L
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705 W	V	"N"	or	"Xaa"	used:	Feature	required	Gly	Cys	Cys	Ser	Asn	Xaa	Val	Cys	His	Leu	Х
720 W	V	"N"	or	"Xaa"	used:	Feature	required	Gly	Cys	Cys	Ser	Asn	Xaa	Val	Cys	Arg	Gln	A
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							required	Xaa	Gln	Cys	Cys	Ser	His	Xaa	Ala	Cys	Asn	I
837 W	V	"N"	or	"Xaa"	used:	Feature	required	Xaa	Gln	Cys	Cys	Ser	His	Xaa	Ala	Cys	Asn	v
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							required									Ser		
876 W	J	"N"	or	"Xaa"	used:	Feature	required	Gly	Cys	Cys	Ser	His	Xaa	Ala	Cys	Asn	Val	A
							required	_	-	_	Ser	His	Xaa	Ala	Cys	Ser	Gly	$\mathbf{x}$
892 W	7	"N"	or	"Xaa"	used:	Feature	required	Arg	Xaa	Ser								
903 W	J	"N"	or	"Xaa"	used:	Feature	required	Xaa	Cys	Cys	Ser	His	Xaa	Ala	Cys	Ser	Gly	A
916 W	<b>I</b>	"N"	or	"Xaa"	used:	Feature	required	Gly	Cys	Cys	Ser	His	Xaa	Ala	Cys	Ser	Gly	Α
							required									Ala		
							required	-	•	-					_	Phe		
							required									Ile		
							required									Ala		
							required	-	_	_					_	Ala	_	
							required									Ile		
							required	_	_	_					_	His		
							required	_	_							Cys		
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VERIFICATION SUMMARYDATE: 02/17/2000PATENT APPLICATION US/09/493,795TIME: 12:51:55

Input Set: 1493795.RAW

Line ?	Err	or/V	Varning	3			Orig	gina:	l Te	ĸt							
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1088 W	"N"	or	"Xaa"	used:	Feature	required	Xaa	Gln	Cys	Cys	Ser	His	Leu	Ala	Cys	Asn	V
1108 W	"N"	or	"Xaa"	used:	Feature	required	Gly	Cys	Cys	Ser	Xaa	Phe	Asp	Cys	Arg	Met	M
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1129 W	"N"	or	"Xaa"	used:	Feature	required	Gly	Gly	Cys	Cys	Ser	Phe	Ala	Ala	Cys	Arg	Х
1145 W	"N"	or	"Xaa"	used:	Feature	required	Gly	Gly	Cys	Cys	Phe	His	Xaa	Val	Cys	Xaa	I
1166 W	"N"	or	"Xaa"	used:	Feature	required	Ser	Ala	Thr	Cys	Cys	Asn	Xaa	Xaa	Xaa	Cys	Х
						required		_	_				Xaa				
1205 W	"N"	or	"Xaa"	used:	Feature	required	Asn	Ala	Xaa	Cys	Cys	Xaa	Xaa	Xaa	Xaa	Cys	X
2845 W	"N"	or	"Xaa"	used:	Feature	required	-	_	_				Val				
						required				_	_	-	Arg				
						required	_	_		_			Cys				
						required	Gly	Cys	Cys	Xaa	Asn	Xaa	Ser	Cys	Xaa	Xaa	Х
						required	Xaa										
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						required	-	_					Cys				
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						required	_	_	_	_			Xaa		_		
						required	_	_	_				Val	-			
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# VERIFICATION SUMMARYDATE: 02/17/2000PATENT APPLICATION US/09/493,795TIME: 12:51:55

Input Set: **I493795.RAW** 

3376 W "N' or "Xaa" used: Peature required 3388 W "N' or "Xaa" used: Peature required 3402 W "N' or "Xaa" used: Peature required 3422 W "N' or "Xaa" used: Peature required 3422 W "N' or "Xaa" used: Peature required 3424 W "N' or "Xaa" used: Peature required 3434 W "N' or "Xaa" used: Peature required 3457 W "N' or "Xaa" used: Peature required 3467 W "N' or "Xaa" used: Peature required 3475 W "N' or "Xaa" used: Peature required 3485 W "N' or "Xaa" used: Peature required 3495 W "N' or "Xaa" used: Peature required 3510 W "N' or "Xaa" used: Peature required 3522 W "N' or "Xaa" used: Peature required 3534 W "N' or "Xaa" used: Peature required 3548 W "N' or "Xaa" used: Peature required 3569 W "N' or "Xaa" used: Peature required 3669 W "N' or "Xaa" used: Peature required 3679 W "N' or "Xaa" used: Peature required 3679 W "N' or "Xaa" used: Peature required 3679 W "N' or "Xaa" used: Peature required 3775 W "N' or "Xaa" used: Peature required 3776 W "N' or "Xaa" used: Peature required 3776 W "N' or "Xaa" used: Peature required 3775 W "N' or "Xaa" used: Peature required 3776 W "N' or "Xaa" used: Peature required 3777 W "N' or "Xaa" used: Peature required 3778 W "N' or "Xaa" used: Peature required 3788 W "N' or "Xaa" used: Peature required 3797 W "N' or "Xaa" used:	Line	?	Error/Warning							Original Text									
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3709 W "N" or "Xaa" used: Feature required Arg Xaa Ser  3711 W "N" or "Xaa" used: Feature required Arg Xaa Ser  3725 W "N" or "Xaa" used: Feature required Arg Xaa Ser  3745 W "N" or "Xaa" used: Feature required Arg Xaa Cys Cys Ser Xaa Xaa Asp Cys Gly A 3745 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Ala Cys Arg Xaa X 3757 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Ala Cys Arg Xaa X 3771 W "N" or "Xaa" used: Feature required Xaa Cys Cys Ser Asp Xaa Ser Cys Asn Val A 3784 W "N" or "Xaa" used: Feature required Xaa Xaa Cys Cys Ser Asp Xaa Arg Cys Ser V 3797 W "N" or "Xaa" used: Feature required Arg Asp Xaa Cys Cys Ser Asp Xaa Arg Cys Ser V 3882 W "N" or "Xaa" used: Feature required Arg Asp Xaa Cys Cys Phe Asn Xaa Ala Cys Leu V Al Asn A 3847 W "N" or "Xaa" used: Feature required Asp Xaa Cys Cys Ser Asp Xaa Arg Leu H 3835 W "N" or "Xaa" used: Feature required Asp Xaa Cys Cys Ser His Xaa Ala Cys Leu Val Asn A 3847 W "N" or "Xaa" used: Feature required Asp Xaa Cys Cys Ser His Xaa Ala Cys Xaa Val A 3910 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Xaa Val A 3923 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Xaa Val A 3949 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Asn Val A 3967 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Asn Val A 3967 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Asn Val A 3968 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Asn Val A 3969 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Asn Val A 3969 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Asn Val A 3969 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Ala Cys Asn Val A 3969 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser Asn Xaa Xal Cys Ite Val A 3969 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser Asn Xaa Xaa Cys Ite Ala X 4024 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser Asn Xaa X	3681	W	"N"	or	"Xaa"	used:	Feature	required	Arg	Xaa	Ser								
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3725 W "N" or "Xaa" used: Feature required	3709	W	"N"	or	"Xaa"	used:	Feature	required	Gly	Cys	Cys	Ser	His	Xaa	Ala	Cys	Ser	Gly	A
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3757 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Ala Cys Ala Gly A 3771 W "N" or "Xaa" used: Feature required Sly Cys Cys Ser Asp Xaa Ser Cys Asn Val A 3784 W "N" or "Xaa" used: Feature required Sly Gly Cys Cys Ser Asp Xaa Arg Cys Ser V 3797 W "N" or "Xaa" used: Feature required Sly Gly Cys Cys Ser Asp Xaa Ala Cys Leu V 3809 W "N" or "Xaa" used: Feature required Cys Cys Ser Asp Xaa Ala Cys Leu V 3835 W "N" or "Xaa" used: Feature required Cys Cys Ser Asp Xaa Ala Cys Leu Val Asn A 3847 W "N" or "Xaa" used: Feature required Asp Xaa Cys Cys Ser Asp Xaa Arg Cys His G 3859 W "N" or "Xaa" used: Feature required Asp Cys Cys Ser His Xaa Ala Cys Arg Leu P 3879 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Xaa Val A 3910 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Xaa Val A 3923 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Xaa Val A 3949 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Xaa Val A 3956 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Xaa Val A 3987 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Asn Leu S 3963 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Asn Leu S 3963 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Asn Leu S 3963 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Val Cys Asn Leu S 3963 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser His Xaa Ala Cys Thr Val A 4001 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser Asn Xaa Ala Cys Thr Val A 4001 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser Asn Xaa Ala Cys Thr Val A 4004 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser Asn Xaa Ala Cys Thr Val A 4008 W "N" or "Xaa" used: Feature required Gly Cys Cys Gly Asn Xaa Ala Cys Ser Gly Se	3725	W	"N"	or	"Xaa"	used:	Feature	required											
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3923 W "N" or "Xaa" used: Feature required 3936 W "N" or "Xaa" used: Feature required 3949 W "N" or "Xaa" used: Feature required 3963 W "N" or "Xaa" used: Feature required 3975 W "N" or "Xaa" used: Feature required 3987 W "N" or "Xaa" used: Feature required 3987 W "N" or "Xaa" used: Feature required 3987 W "N" or "Xaa" used: Feature required 4001 W "N" or "Xaa" used: Feature required 4024 W "N" or "Xaa" used: Feature required 4038 W "N" or "Xaa" used: Feature required									_	_	_					_			
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3949 W "N" or "Xaa" used: Feature required 3963 W "N" or "Xaa" used: Feature required 3975 W "N" or "Xaa" used: Feature required 3987 W "N" or "Xaa" used: Feature required 3987 W "N" or "Xaa" used: Feature required 4001 W "N" or "Xaa" used: Feature required 4024 W "N" or "Xaa" used: Feature required 4038 W "N" or "Xaa" used: Feature required 61y Cys Cys Ser His Xaa Val Cys Asn Leu S 402 Cys Cys Ser His Xaa Ala Cys Asn V 402 Cys Cys Ser Asn Xaa Ala Cys Leu Val A 403 Cys Cys Asp Asp Asp Xaa Ala Cys Thr Val A 403 Cys Cys Thr Ile Xaa Ser Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xa								<del>-</del>											
3963 W "N" or "Xaa" used: Feature required 3975 W "N" or "Xaa" used: Feature required 3987 W "N" or "Xaa" used: Feature required 4001 W "N" or "Xaa" used: Feature required 4024 W "N" or "Xaa" used: Feature required 4038 W "N" or "Xaa" used: Feature required								<b>-</b>		_	_					-			
3975 W "N" or "Xaa" used: Feature required 3987 W "N" or "Xaa" used: Feature required 4001 W "N" or "Xaa" used: Feature required 4024 W "N" or "Xaa" used: Feature required 4038 W "N" or "Xaa" used: Feature required								<del>-</del>	_	_	_					-			
3987 W "N" or "Xaa" used: Feature required 4001 W "N" or "Xaa" used: Feature required Gly Cys Cys Asp Asp Xaa Ala Cys Thr Val A Gly Cys Cys Ser Asn Xaa Xaa Cys Ile Ala X Cys Cys Thr Ile Xaa Ser Cys Xaa Xaa Xaa X Cys Cys Thr Ile Xaa Ser Cys Xaa Xaa Xaa X Gly Cys Cys Gly Asn Xaa Ala Cys Ser Gly S								<del>-</del>			_	_							
4001 W "N" or "Xaa" used: Feature required 4024 W "N" or "Xaa" used: Feature required 4038 W "N" or "Xaa" used: Feature required Gly Cys Cys Ser Asn Xaa Xaa Cys Ile Ala X Cys Cys Thr Ile Xaa Ser Cys Xaa Xaa Xaa X Gly Cys Cys Gly Asn Xaa Ala Cys Ser Gly S								_	_	_	_					_			
4024 W "N" or "Xaa" used: Feature required Cys Cys Thr Ile Xaa Ser Cys Xaa Xaa Xaa X 4038 W "N" or "Xaa" used: Feature required Gly Cys Cys Gly Asn Xaa Ala Cys Ser Gly S								_	_	_	_	_	_			_			
4038 W "N" or "Xaa" used: Feature required Gly Cys Cys Gly Asn Xaa Ala Cys Ser Gly S								_	_	_	_					_			
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4357 W Invalid/Missing Amino Acid Numbering								_	,	-,-	-,-	1				-1-		1	-

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### VERIFICATION SUMMARY PATENT APPLICATION US/09/493,795 TIME: 12:51:55

DATE: 02/17/2000

Input Set: I493795.RAW

Original Text Line ? Error/Warning

4440 W Invalid/Missing Amino Acid Numbering